

cm We claim:

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10 A method for the prevention or treatment of cerebral ischemia comprising the step of administering, to a patient in need thereof, an effective amount of an adamantine derivative of the general formula

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$\begin{array}{c} R_1 \\ | \\ N \\ | \\ R_2 \\ | \\ \backslash \\ \backslash \\ \text{C}_1 \\ | \\ \text{C}_2 \\ | \\ \text{C}_3 \\ | \\ \text{C}_4 \\ | \\ \text{C}_5 \\ | \\ R_3 \\ | \\ R_4 \\ | \\ R_5 \end{array}$

(I)

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T, 260X

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PS

wherein  $R_1$  and  $R_2$  are identical or different and represent hydrogen or a straight or branched alkyl group of 1 to 6 C atoms or, in conjunction with N, a heterocyclic group with 5 or 6 ring C atoms;

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wherein  $R_3$  and  $R_4$  are identical or different, being selected from hydrogen, a straight or branched alkyl group of 1 to 6 C atoms, a cycloalkyl group with 5 or 6 C atoms, and phenyl;

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wherein  $R_5$  is hydrogen or a straight or branched 14 C<sub>1</sub> - C<sub>6</sub> alkyl group, or a pharmaceutically-acceptable salt thereof.

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20 A method according to claim 1, wherein R<sub>1</sub>, R<sub>2</sub> and R<sub>5</sub> are hydrogen.

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30 A method according to claim 2, wherein R<sub>1</sub>, R<sub>2</sub> and R<sub>5</sub> are hydrogen, and R<sub>3</sub> and R<sub>4</sub> are methyl.

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40 A method according to claim 2, wherein R<sub>1</sub>, R<sub>2</sub> and R<sub>5</sub> are hydrogen, and R<sub>3</sub> and R<sub>4</sub> are ethyl.

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50 A method according to Claim 1, wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>4</sub> and R<sub>5</sub> are hydrogen, and R<sub>3</sub> is ethyl, isopropyl, or cyclohexyl.

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60 A method according to claim 1, wherein R<sub>2</sub> and R<sub>5</sub> are hydrogen.

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70 A method according to claim 6, wherein R<sub>3</sub> and R<sub>4</sub> are methyl, R<sub>2</sub> and R<sub>5</sub> are hydrogen and R<sub>1</sub> is methyl or ethyl.

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80 A method according to claim 1, wherein R<sub>1</sub> and R<sub>2</sub> are hydrogen.

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90 A method according to claim 8, wherein R<sub>1</sub> and R<sub>2</sub> are hydrogen, R<sub>3</sub> is ethyl, and R<sub>5</sub> and R<sub>4</sub> are methyl.

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100 A method according to claim 1 for the ~~prevention~~  
~~or~~ treatment of Alzheimer's disease.

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110 A method of claim 1, wherein the adamantine derivative is administered in an effective cerebral ischemia-alleviating or preventive amount.

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12① A method of claim 11, wherein the adamantane derivative is administered in the form of a composition containing the same together with a pharmaceutically-acceptable carrier or diluent.

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13① A method of claim 11, wherein the adamantane derivative is administered in an amount effective to prevent degeneration and loss of nerve cells after ischemia.

